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Sequence Listing could not be accepted.

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217-9197 (toll free).

Reviewer: Durreshwar Anjum

Timestamp: Wed Oct 10 13:45:14 EDT 2007

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Reviewer Comments:

<210> SEQ ID NO 1

<211> LENGTH: 1512

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<400> SEQUENCE: 1

Please do not insert alpha-numeric headings. Also check for the
subsequent errors throughout the sequences.

Application No: 10597945

Version No: 1.0

Input Set:

Output Set:

Started: 2007-09-24 22:12:16.977

Finished: 2007-09-24 22:12:18.027

Elapsed: 0 hr(s) 0 min(s) 1 sec(s) 50 ms

Total Warnings: 19

Total Errors: 0

No. of SeqIDs Defined: 30

Actual SeqID Count: 30

| Error code | Error Description |
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| W 213 | Artificial or Unknown found in <213> in SEQ ID (12) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (13) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (14) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (15) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (16) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (17) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (18) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (19) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (20) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (21) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (22) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (23) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (24) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (25) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (26) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (27) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (28) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (29) |
| W 213 | Artificial or Unknown found in <213> in SEQ ID (30) |

<110> APPLICANT: Korea Research Institute of Bioscience and Biotechnology
 KWAK, Sang-Soo
 KWON, Suk-Yoon
 LEE, Haeng-Soon
 RYU, Sun-Hwa
 <120> TITLE OF INVENTION: Multiple stress-inducible peroxidase promoter derived from
 Ipomoea batatas
 <130> FILE REFERENCE: 58049-00035
 <140> CURRENT APPLICATION NUMBER: US/10/597,945A
 <141> CURRENT FILING DATE: 2006-08-11
 <150> PRIOR APPLICATION NUMBER: PCT/KR2004/000381
 <151> PRIOR FILING DATE: 2004-02-24
 <160> NUMBER OF SEQ ID NOS: 30
 <170> SOFTWARE: KopatentIn 1.71

<210> SEQ ID NO 1
 <211> LENGTH: 1512
 <212> TYPE: DNA
 <213> ORGANISM: Ipomoea batatas
 <400> SEQUENCE: 1

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|-------------|------------|------------|------------|-------------|-------------|------|
| atggcttctct | ttgtcactcg | gctcagcctg | gcccttagct | tcatcgccct | agccctagct | 60 |
| ggcttctcca | tttaccagaa | taccatata | gccatgaaag | ggcagcttaa | gctcacccca | 120 |
| aagtggctgc | tagacaacac | tctagagtcg | tcagtggccg | acgtgctctc | actacgccta | 180 |
| ggcatctct | ccggcaagct | ttccgacgaa | gactgcatat | tctccgccgt | taaggaagtg | 240 |
| gtggacgccg | ccattgatgc | agaaacccgc | atgggtgctt | ccctcattcg | cctcttcttc | 300 |
| catgactgct | ttgttgatgt | acgtacgcta | attttgtacg | atgatgtttt | tttttttttt | 360 |
| tttttttttc | ccactgcatt | atattaggaa | attaaacaga | ttgaaatgtg | tgttattaat | 420 |
| gtattatctg | caggggtgtg | acgcaggtct | tctactaaac | gatacaccta | ctttcaccgg | 480 |
| agaacagacc | gccggcggca | ataataactc | agtcagaggt | tttgaggtga | tacaacaagc | 540 |
| taaagagaat | gtgataacca | aatgtcccta | catacaagta | tcttggtgccg | acatcttata | 600 |
| cattgctgcc | cgtgattctt | tccagagagt | aagtccattt | atttctaaag | gttgaaatta | 660 |
| ataagaacaa | gaatccaaac | aaataacaga | cagtaaaaaa | aaaagattta | tgtggtttga | 720 |
| caatatgttg | aaattgtttt | tatatttaat | gactagtatt | tatgcattat | atztatatgc | 780 |
| aactctaaac | atgcagttta | ctggagaaac | gtacaccgtg | actctgggaa | gactcgatgc | 840 |
| aagaacggcg | aaccttaccg | gagctaacac | ccaactcgtc | ggaccaaacg | aggaattggc | 900 |
| atcgcaagtc | gagaaatttg | cggcgaaaag | gttctccgaa | acggagctag | tcgccttggt | 960 |
| agggtgtcac | acgggtgggt | tttcgagatg | tccgctttta | tgcgttccca | ttttcatcaa | 1020 |
| tcccgcgccg | gcctccacgc | tgcaatgcaa | ctgtccggtg | agtcgccgac | acaccgggct | 1080 |
| ggtgggcctg | gacccactc | cgttgacgtg | ggaccaaagt | ttttactccg | acgtggctaa | 1140 |
| cggacaaggg | cttctgttct | ccgacaacga | gctgatgaat | agcaaacacca | ccagcgccgc | 1200 |
| cgttaggagg | tacagggacg | agatggacgc | ttttctcgcc | gatttcgccg | ccgccatggt | 1260 |
| gaagatgagc | ctcctgccgc | cgtcccccg | agtggagctc | gaaatccgag | aggtttgcag | 1320 |
| cgagggtgaat | gccaacacag | ttgcatccat | gtgaagttcg | ttcccatcga | catcaataac | 1380 |
| gtctgtgatt | ctgtgaaagt | tttactcgga | ctgtgaagaa | ttttcacttt | ctgttgtttc | 1440 |
| tgaataaaaa | aagatttttt | ttttatgtcc | taacaaaact | tgtattactg | aataaaaattt | 1500 |
| ataaaattgt | ta | | | | | 1512 |

<210> SEQ ID NO 2
 <211> LENGTH: 110
 <212> TYPE: DNA
 <213> ORGANISM: Ipomoea batatas

<220> FEATURE:
 <221> NAME/KEY: promoter
 <222> LOCATION: (1)..(110)
 <223> OTHER INFORMATION: -110 deletion promoter
 <400> SEQUENCE: 2

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|----|
| tttccctttc | aagttctcta | tttaagggaag | cctgagaagc | cattaatcct | catcatcagc | 60 |
|------------|------------|-------------|------------|------------|------------|----|

tcgaccactc atttcttctt catacttcct ttgtgtgat aatcatcatc 110

<210> SEQ ID NO 3

<211> LENGTH: 177

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<220> FEATURE:

<221> NAME/KEY: promoter

<222> LOCATION: (1)..(177)

<223> OTHER INFORMATION: -177 deletion promoter

<400> SEQUENCE: 3

| | |
|--|-----|
| aaattaaatc tcagtttgct ttattatatt attatcaaca ataataattt aatactgac | 60 |
| gaagaacttt cctttcaag ttctctattt aaggaagcct gagaagccat taatcctcat | 120 |
| catcagctcg accactcatt tcttcttcat acttccttg ctgtgataat catcatc | 177 |

<210> SEQ ID NO 4

<211> LENGTH: 306

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<220> FEATURE:

<221> NAME/KEY: promoter

<222> LOCATION: (1)..(306)

<223> OTHER INFORMATION: -306 deletion promoter

<400> SEQUENCE: 4

| | |
|---|-----|
| taaggtgttt tatcgtggca gcatgagtg atgacaaacg catatattat tattaaaaca | 60 |
| aaatagtact ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca | 120 |
| aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta | 180 |
| atactgatcg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt | 240 |
| aatcctcatc atcagctcga ccactcattt cttcttcata cttcctttgc tgtgataatc | 300 |
| atcatc | 306 |

<210> SEQ ID NO 5

<211> LENGTH: 366

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<220> FEATURE:

<221> NAME/KEY: promoter

<222> LOCATION: (1)..(366)

<223> OTHER INFORMATION: -366 deletion promoter

<400> SEQUENCE: 5

| | |
|---|-----|
| tagtataatg aaataaagtt aatcattctc tatatttgat gatggtaatt agtatcatgg | 60 |
| taaggtgttt tatcgtggca gcatgagtg atgacaaacg catatattat tattaaaaca | 120 |
| aaatagtact ccaatcataa taaattatct tatattatat tgccaacaat taaaaattca | 180 |
| aattagaaca aattaaatct cagtttgctt tattatatta ttatcaacaa taataattta | 240 |
| atactgatcg aagaactttc cctttcaagt tctctattta aggaagcctg agaagccatt | 300 |
| aatcctcatc atcagctcga ccactcattt cttcttcata cttcctttgc tgtgataatc | 360 |
| atcatc | 366 |

<210> SEQ ID NO 6

<211> LENGTH: 433

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<220> FEATURE:

<221> NAME/KEY: promoter

<222> LOCATION: (1)..(433)

<223> OTHER INFORMATION: -433 deletion promoter

<400> SEQUENCE: 6

| | | | | | | |
|------------|------------|------------|------------|------------|------------|-----|
| atggtgactt | aaagggctga | atccaacata | tattctgaca | tttaaaaatg | ctaacgtacg | 60 |
| gttagattag | tataatgaaa | taaagttaat | cattctctat | atttgatgat | ggtaattagt | 120 |
| atcatggtaa | gggtgtttat | cgtggcagca | tgagtgcacg | acaaacgcac | atattattat | 180 |
| taaaacaaaa | tagtactcca | atcataataa | attatcttat | attatattgc | caacaattaa | 240 |
| aaattcaaat | tagaacaaat | taaatctcag | tttgctttat | tatattatta | tcaacaataa | 300 |
| taatttaata | ctgatcgaag | aactttccct | ttcaagttct | ctatttaagg | aagcctgaga | 360 |
| agccattaat | cctcatcatc | agctcgacca | ctcatttctt | cttcataact | cctttgctgt | 420 |
| gataatcatc | atc | | | | | 433 |

<210> SEQ ID NO 7
 <211> LENGTH: 818
 <212> TYPE: DNA
 <213> ORGANISM: Ipomoea batatas
 <220> FEATURE:
 <221> NAME/KEY: promoter
 <222> LOCATION: (1)..(818)
 <223> OTHER INFORMATION: -818 deletion promoter
 <400> SEQUENCE: 7

| | | | | | | |
|-------------|-------------|------------|-------------|------------|------------|-----|
| gcttcacgca | ctcaactagt | cacatctttc | caggcaaaaat | ttacttttct | atgaatatga | 60 |
| gaagtcccat | ctatggaaat | aacggattat | ttatctaatt | ttcaaattct | atatatatag | 120 |
| tctcgagtgg | aacaaaaata | gaactaat | gaacaaatca | aagtctaaga | aaataataca | 180 |
| tgctttagca | gcaaaaaata | gaatggtagt | atacttaatc | ctcatcatag | tcttcaaccc | 240 |
| tgcatatagc | acacttaaca | ttttatattc | aaatataact | taatttagtc | atgataatac | 300 |
| aactcaccta | ctccattata | gccgataata | caactcacct | agctactcca | ttatagtcca | 360 |
| acaatatcaa | atgaataaaa | tagtaatggt | gacttaaagg | gctgaatcca | acatatattc | 420 |
| tgacatttaa | aaatgctaac | gtacggttag | attagtataa | tgaaataaag | ttaatcattc | 480 |
| tctatatttg | atgatggtaa | ttagtatcat | ggtaagggtg | tttatcgtgg | cagcatgagt | 540 |
| gcatgacaaa | cgcatatatt | attattaaaa | caaaatagta | ctccaatcat | aataaattat | 600 |
| cttatattat | attgccaaaca | attaaaaatt | caaattagaa | caaattaaat | ctcagtttgc | 660 |
| tttattatat | tattatcaac | aataataatt | taatactgat | cgaagaactt | tccctttcaa | 720 |
| gttctctatt | taagggaagcc | tgagaagcca | ttaatcctca | tcacagctc | gaccactcat | 780 |
| ttctttcttca | tacttccttt | gctgtgataa | tcacatc | | | 818 |

<210> SEQ ID NO 8
 <211> LENGTH: 1199
 <212> TYPE: DNA
 <213> ORGANISM: Ipomoea batatas
 <220> FEATURE:
 <221> NAME/KEY: promoter
 <222> LOCATION: (1)..(1199)
 <223> OTHER INFORMATION: -1199 deletion promoter
 <400> SEQUENCE: 8

| | | | | | | |
|------------|------------|-------------|-------------|------------|--------------|-----|
| atgcagggtg | aaagtaagat | tgaatatact | gatactacaa | ttaactaatg | ataaagtata | 60 |
| acttttgtaa | aaaatttgat | tttttttttt | gatgaattca | tatactccaa | agatttttct | 120 |
| catttaatta | aatttctatc | ctcatgttga | accattaat | cgaataattg | acatattaga | 180 |
| taaacttagc | catcatatga | catttgatca | tgattgatga | tttttaaaaa | ataaaaaaca | 240 |
| aattatgaaa | gggtaatgaa | atatttttaa | aaaattatgt | aaacctgtga | atctagtaat | 300 |
| ctgtacaata | ataattttgt | ttcaactaag | aggatgttgg | caaaagtata | attaaacttg | 360 |
| tgatcttcgt | acaataatta | tgcttcacgc | actcaactag | tcacatcttt | ccaggcaaaa | 420 |
| tttacttttc | tatgaatatg | agaagttcca | tctatggaaa | taacggatta | tttatcta | 480 |
| tttcaaattc | tatatatata | gtctcgagtg | gaacaaaaat | agaactaatt | tgaacaaatc | 540 |
| aaagtctaag | aaaataatac | atgcttttagc | agcaaaaaata | agaatggtac | tatacttaat | 600 |
| cctcatcata | gtcttcaacc | ctgcatatag | cacacttaac | attttatatt | caaataact | 660 |
| ttaatttagt | catgataata | caactcacct | actccattat | agccgataat | acaactcacc | 720 |
| tagctactcc | attatagtcc | aacaatatca | aatgaataaa | atagtaattg | tgacttaaa | 780 |
| ggctgaatcc | aacatatatt | ctgacattta | aaaatgctaa | cgtacgggta | gattagtata | 840 |
| atgaaataaa | gttaatcatt | ctctatattt | gatgatggta | attagtatca | tggttaagggtg | 900 |

| | | | | | | |
|-------------|------------|-------------|------------|------------|------------|------|
| ttttatcgtg | gcagcatgag | tgcattgacaa | acgcatatat | tattattaaa | acaaaatagt | 960 |
| actccaatca | taataaatta | tcttatatta | tattgccaac | aattaaaaat | tcaaattaga | 1020 |
| acaaaattaaa | tctcagtttg | ctttattata | ttattatcaa | caataataat | ttaatactga | 1080 |
| tcgaagaact | ttccctttca | agttctctat | ttaaggaagc | ctgagaagcc | attaatcctc | 1140 |
| atcatcagct | cgaccactca | tttcttcttc | atacttcctt | tgtgtgata | atcatcatc | 1199 |

<210> SEQ ID NO 9

<211> LENGTH: 1467

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<220> FEATURE:

<221> NAME/KEY: promoter

<222> LOCATION: (1)..(1467)

<223> OTHER INFORMATION: -1467 deletion promoter

<400> SEQUENCE: 9

| | | | | | | |
|-------------|------------|------------|------------|------------|--------------|------|
| ggctgtccgg | aattctgtct | ctctggacca | gttttgacaa | acaattttga | aaccacactt | 60 |
| atactactcc | aaaaattatg | aaatttttat | ggtagcttct | acacttatag | aactacatgt | 120 |
| ataaaaaata | ttgggtcaaa | ataccttacc | gatttttccc | aaatattcac | ggaacttact | 180 |
| gccagaatct | accctgcttt | ttcctttcac | tattttcaca | actataagca | tatatgggca | 240 |
| taaatatgac | atgaacatgc | atgaaccaat | gcagggtgaa | agtaagattg | aatatactga | 300 |
| tactacaatt | aactaatgat | aaagtataac | ttttgtaaaa | aatttgattt | ttttttttga | 360 |
| tgaattcata | tactccaaag | attttctca | tttaattaaa | tttctatcct | catgttgaac | 420 |
| ccattaatcg | aataattgac | atattagata | aacttagcca | tcatatgaca | tttgatcatg | 480 |
| attgatgatt | tttaaaaaat | aaaaacaaaa | ttatgaaagg | gtaatgaaat | attttaaaaa | 540 |
| aattatgtaa | accctgtaat | ctagttaatc | gtacaataat | aattttgttt | caactaagag | 600 |
| gatgttggca | aaagtataat | taaacttggt | atcttcgtac | aataattatg | cttcacgcac | 660 |
| tcaactagtc | acatctttcc | aggcaaaaat | tacttttcta | tgaatatgag | aagttccatc | 720 |
| tatggaaata | acggattatt | tatctaattt | tcaaattcta | tatatatagt | ctcgagtggg | 780 |
| acaaaaatag | aactaatttg | aacaaatcaa | agtctaagaa | aataatacat | gcttttagcag | 840 |
| caaaaataag | aatggtacta | tacttaatcc | tcatcatagt | cttcaaccct | gcataatagca | 900 |
| cacttaacat | tttatattca | aataactttt | aatttagtca | tgataataca | actcacctac | 960 |
| tccattatag | ccgataatac | aactcaccta | gctactccat | tatagtccaa | caatatcaaa | 1020 |
| tgaataaaat | agtaatggtg | acttaaaggg | ctgaatccaa | catatattct | gacattttaa | 1080 |
| aatgctaacg | tacggttaga | ttagtataat | gaaataaagt | taatcattct | ctatatattga | 1140 |
| tgatggtaat | tagtatcatg | gtaagggtgt | ttatcgtggc | agcatgagtg | catgacaaac | 1200 |
| gcataatatta | ttattaaaac | aaaatagtac | tccaatcata | ataaattatc | ttatatattata | 1260 |
| ttgccacaaa | ttaaaaatcc | aaattagaac | aaattaaatc | tcagtttgct | ttattatatt | 1320 |
| attatcaaca | ataataattt | aatactgatc | gaagaacttt | ccctttcaag | ttctctattt | 1380 |
| aagggaagcct | gagaagccat | taatcctcat | catcagctcg | accactcatt | tcttcttcat | 1440 |
| acttcctttg | ctgtgataat | catcatc | | | | 1467 |

<210> SEQ ID NO 10

<211> LENGTH: 1934

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<220> FEATURE:

<221> NAME/KEY: promoter

<222> LOCATION: (1)..(1934)

<223> OTHER INFORMATION: -1934 deletion promoter

<400> SEQUENCE: 10

| | | | | | | |
|------------|------------|-------------|------------|------------|------------|-----|
| ttgccatctc | accacttcgt | cttaaacaaat | ctaggatatt | cttagatatt | cttcatactc | 60 |
| aagtctcaca | cttgaaatca | atcaagactc | ttacactaac | aattcctcaa | tatacctcat | 120 |
| aatatcatct | ctacttaaac | tagagagatt | tccaactctc | aattaatcac | caaaggtaac | 180 |
| tctccaaata | tccaaatgga | aggtttcaac | ttccaaacta | ataccaaacc | aaccggacta | 240 |
| atcataatca | tattcataat | cataaattgt | ttctaactgc | ccctgtccag | aaattacagt | 300 |
| tttgccgagt | ccgaaagatt | gagccggtaa | caatagttcc | cgaactcttt | ttcacttgaa | 360 |
| atttttatgg | tagaacacct | acttatagta | cttgatatcc | ataaaaagtt | ttggtcacct | 420 |

| | | | | | | |
|------------|-------------|-------------|------------|-------------|-------------|------|
| aggttcacga | attaacacag | aaaattacat | ctttgccctt | ggcagtgggc | tgtccggaat | 480 |
| tctgtctctc | tggaccagtt | ttggcaaaca | atTTtgaaac | cacacttata | ctactccaaa | 540 |
| aattatgaaa | tttttatggt | agcttctaca | cttatagaac | tacatgtata | aaaaatattg | 600 |
| ggtcaaaata | ccttaccgat | ttttcccaaa | tattcacgga | acttactgcc | agaatctacc | 660 |
| ctgctttttc | ctttcactat | tttcacaact | ataagcatat | atgggcataa | atatgacatg | 720 |
| aacatgcatg | aaccaatgca | gggtgaaagt | aagattgaat | atactgatac | tacaattaac | 780 |
| taatgataaa | gtataacttt | tgtaaaaaat | ttgatttttt | tttttgatga | attcatatac | 840 |
| tccaaagatt | ttcctcattt | aattaaattt | ctatcctcat | gttgaacca | ttaatcgaat | 900 |
| aattgacata | ttagataaac | ttagccatca | tatgacattt | gatcatgatt | gatgattttt | 960 |
| aaaaaataaa | aacaaaatta | tgaaagggtg | atgaaatatt | ttaaaaaaat | tatgtaaacc | 1020 |
| ctgtaatcta | gtaatctgta | caataataat | tttgtttcaa | ctaagaggat | gttggcaaaa | 1080 |
| gtataattaa | acttgtgatc | ttcgtacaat | aattatgctt | cacgcactca | actagtcccc | 1140 |
| tctttccagg | caaaatttac | ttttctatga | atatgagaag | ttccatctat | ggaaataacg | 1200 |
| gattatttat | ctaattttca | aattctatat | atatagtctc | gagtggaca | aaaatagaac | 1260 |
| taatttgaac | aatcaaaagt | ctaagaaaat | aatacatgct | ttagcagcaa | aaataagaat | 1320 |
| ggtactatac | ttaatcctca | tcatagtctt | caaccctgca | tatagcacac | ttaacatttt | 1380 |
| atattcaaat | atactttaat | ttagtcatga | taatacaact | cacctactcc | attatagccg | 1440 |
| ataatacaac | tcacctagct | actccattat | agtccaacaa | tatcaaatga | ataaaatagt | 1500 |
| aatggtgact | taaagggtctg | aatccaacat | atattctgac | atttaaaaaat | gctaacgtac | 1560 |
| ggttagatta | gtataatgaa | ataaagttaa | tcattctcta | tatttgatga | tggttaattag | 1620 |
| tatcatggta | aggtgtttta | tcgtggcagc | atgagtgcac | gacaaacgca | tatattatta | 1680 |
| ttaaaacaaa | atagtactcc | aatcataata | aattatctta | tattatattg | ccaacaatta | 1740 |
| aaaattcaaa | ttagaacaaa | ttaaactctca | gtttgcttta | ttatattatt | atcaacaata | 1800 |
| ataatttaat | actgatcgaa | gaactttccc | tttcaagttc | tctattttaag | gaagcctgag | 1860 |
| aagccattaa | tcctcatcat | cagctcgacc | actcatttct | tcttcatact | tcctttgctg | 1920 |
| tgataatcat | catc | | | | | 1934 |

<210> SEQ ID NO 11

<211> LENGTH: 2433

<212> TYPE: DNA

<213> ORGANISM: Ipomoea batatas

<220> FEATURE:

<221> NAME/KEY: promoter

<222> LOCATION: (1)..(2433)

<223> OTHER INFORMATION: -2433 promoter

<400> SEQUENCE: 11

| | | | | | | |
|-------------|-------------|------------|-------------|-------------|------------|------|
| cctcatggag | tattctcata | actctcttca | gtatgaatga | atcatacaat | acaacgcagc | 60 |
| gacgaataga | cttcgccctg | aactagacat | acgacaacat | agccaccata | cgggaaaggc | 120 |
| acttcaagct | ctttatcccg | taggctgcaa | caacataacg | acataacgac | cactgggcaa | 180 |
| gggcatttac | agccaccctg | gggtcaatca | aggctctcct | cactcacttt | agaaactaag | 240 |
| ggtttgaaaa | catgatcttt | ccttcagttt | ttcttacaac | aaatcattca | ctttggacac | 300 |
| atttcacaaat | tgagtccaat | acttaaaccg | gctacttcat | tagccccctga | aggattttta | 360 |
| aaaaaacttt | cactgcccgc | aggctcttca | aacatctttt | cctcattatc | aagtgaggca | 420 |
| ttttcctcaa | aagtaagggt | ttgacaacct | ttatatcaaa | atagcatacg | tttttcaacg | 480 |
| taagtttcat | aacatttact | tgccatctca | ccacttcgtc | ttaaacaatc | taggatattc | 540 |
| ttagatattc | ttcatactca | agtctcacac | ttgaaatcaa | tcaagactct | tacactaaca | 600 |
| attcctcaat | atacctcata | atatcatctc | tactttaaact | agagagattt | ccaactctca | 660 |
| attaatcacc | aaaggtaaact | ctccaaatat | ccaaatggaa | ggtttcaact | tccaaactaa | 720 |
| taccaaacca | accggactaa | tcataatcat | attcataatc | ataaattggt | tctaactgcc | 780 |
| cctgtccaga | aattacagtt | ttgcgcagtc | cgaagatttg | agccggtaac | aatagttccc | 840 |
| gaactctttt | tcacttgaaa | tttttatggt | agaaccctaa | cttatagtac | ttgatatcca | 900 |
| taaaaagttt | tggtcaccta | ggttcacgaa | ttaacacaga | aaattacatc | tttgcccttg | 960 |
| gcagtgggct | gtccggaatt | ctgtctctct | ggaccagttt | tggcaaacaa | ttttgaaacc | 1020 |
| acacttatac | tactccaaaa | attatgaaat | ttttatggta | gcttctacac | ttatagaact | 1080 |
| acatgtataa | aaaatattgg | gtcaaaatac | cttaccgatt | tttcccaaat | attcacggaa | 1140 |
| cttactgcca | gaatctaccc | tgctttttcc | tttctactat | ttcacacta | taagcatata | 1200 |
| tgggcataaa | tatgacatga | acatgcatga | accaatgcag | ggtgaaagta | agattgaata | 1260 |

| | | | | | | |
|-------------|------------|------------|-------------|------------|------------|------|
| tactgatact | acaattaact | aatgataaag | tataactttt | gtaaaaaatt | tgattttttt | 1320 |
| ttttgatgaa | ttcatatact | ccaaagattt | tcctcattta | attaaatttc | tatcctcatg | 1380 |
| ttgaacccat | taatcgaata | attgacatat | tagataaact | tagccatcat | atgacatttg | 1440 |
| atcatgattg | atgattttta | aaaaataaaa | acaaaattat | gaaagggtaa | tgaaatattt | 1500 |
| taaaaaaatt | atgtaaacc | tgtaatttag | taattctgtac | aataataatt | ttgtttcaac | 1560 |
| taagaggatg | ttggcaaaag | tataattaaa | cttgtgatct | tcgtacaata | attatgcttc | 1620 |
| acgcactcaa | ctagtccat | ctttccaggc | aaaatttact | tttctatgaa | tatgagaagt | 1680 |
| tccatctatg | gaaataacgg | attatttatc | taattttcaa | attctatata | tatagtctcg | 1740 |
| agtggaacaa | aaatagaact | aatttgaaca | aatcaaagtc | taagaaaata | atacatgctt | 1800 |
| tagcagcaaa | aataagaatg | gtactatact | taatcctcat | catagtcttc | aaccctgcat | 1860 |
| atagcacact | taacatttta | tattcaaata | tactttaatt | tagtcatgat | aatacaactc | 1920 |
| acctactcca | ttatagccga | taatacaact | cacctagcta | ctccattata | gtccaacaat | 1980 |
| atcaaataaa | taaaatagta | atggtgactt | aaagggctga | atccaacata | tattctgaca | 2040 |
| tttaaaaatg | ctaacgtacg | gttagattag | tataatgaaa | taaagttaat | cattctctat | 2100 |
| atttgatgat | ggtaattagt | atcatggtaa | gggtgtttat | cgtggcagca | tgagtgcatt | 2160 |
| acaaacgcac | atattattat | taaaacaaaa | tagtactcca | atcataataa | attatcttat | 2220 |
| attatattgc | caacaattaa | aaattcaaat | tagaacaagt | taaatctcag | tttgctttat | 2280 |
| tatattatta | tcaacaataa | taatttaata | ctgatcgaag | aactttccct | ttcaagttct | 2340 |
| ctattttaagg | aagcctgaga | agccattaat | cctcatcatc | agctcgacca | ctcatttctt | 2400 |
| cttcatactt | cctttgctgt | gataatcatc | atc | | | 2433 |

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<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: GSP1 promoter

<400> SEQUENCE: 12

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26

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<211> LENGTH: 22

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: AP1 promoter

<400> SEQUENCE: 13

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22

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<211> LENGTH: 25

<212> TYPE: DNA

<213> ORGANISM: Artificial Sequence

<220> FEATURE:

<223> OTHER INFORMATION: GSP2 promoter

<400> SEQUENCE: 14

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